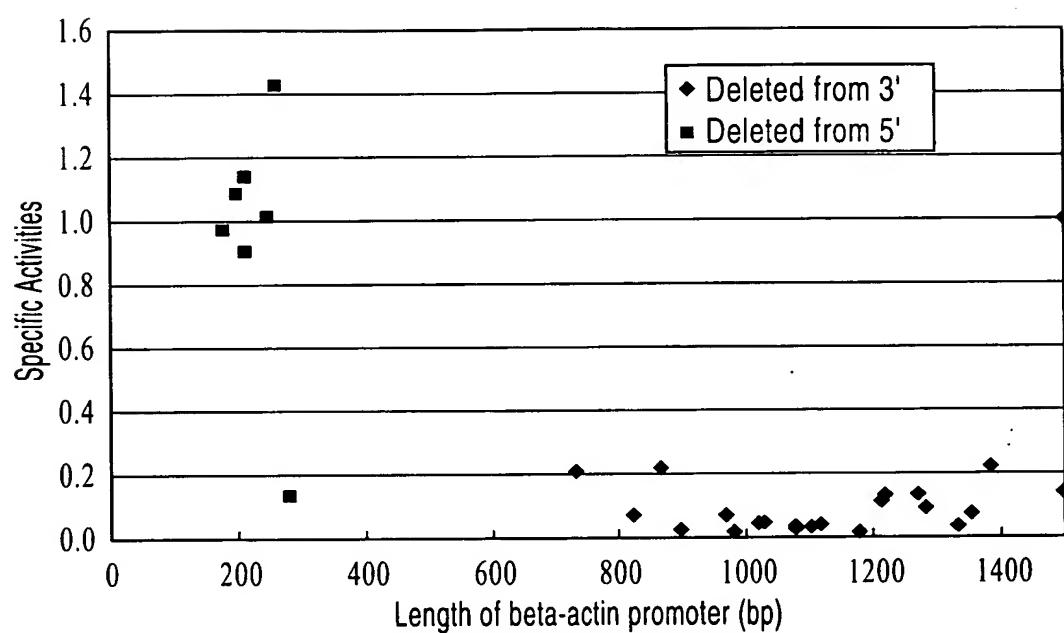




FIG. 1 Activities of Deleted Beta-actin Promoter



## FIG.2

Construction of intermediate plasmid, pGIPecF, during the construction of homology plasmid, p45/46PecF.

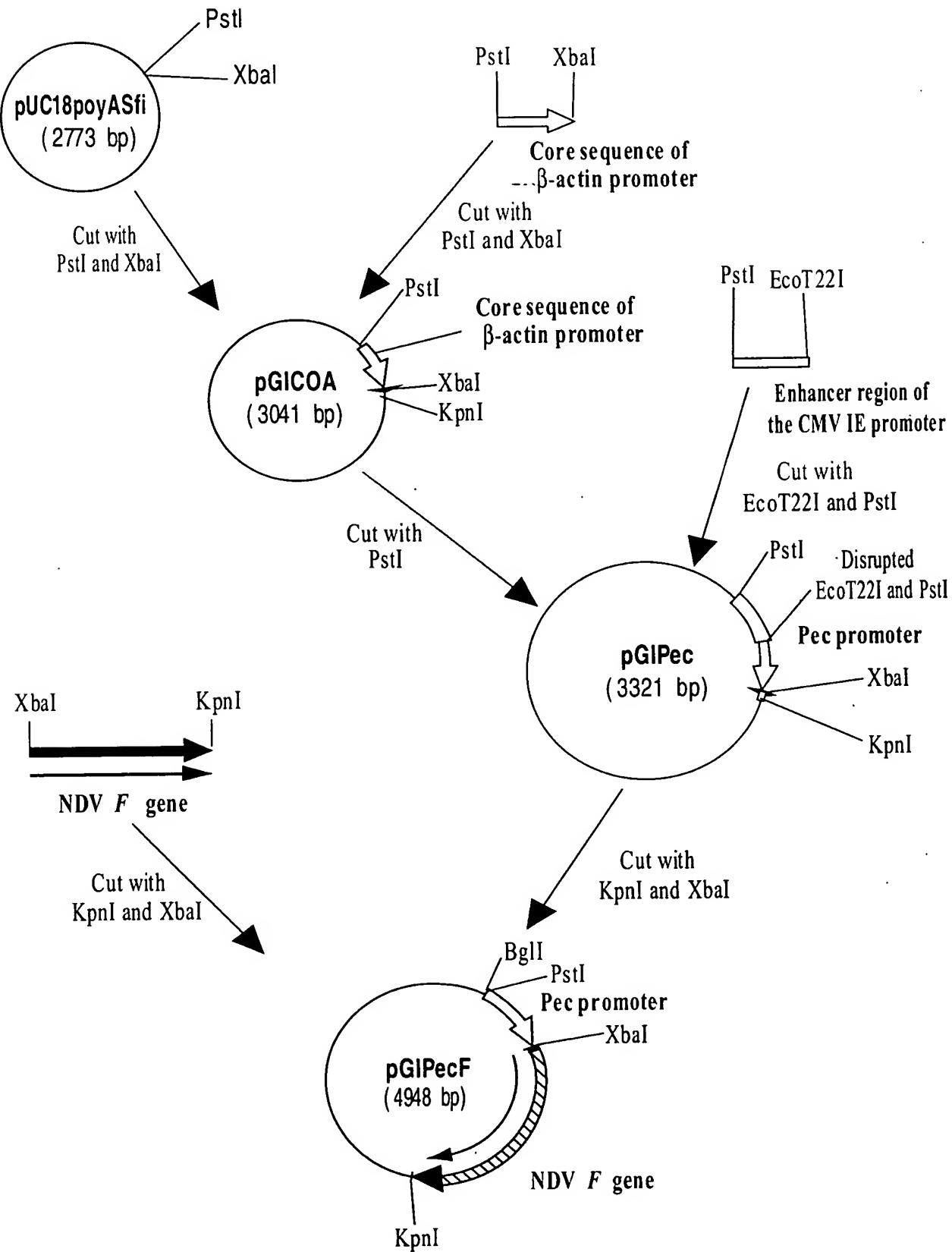
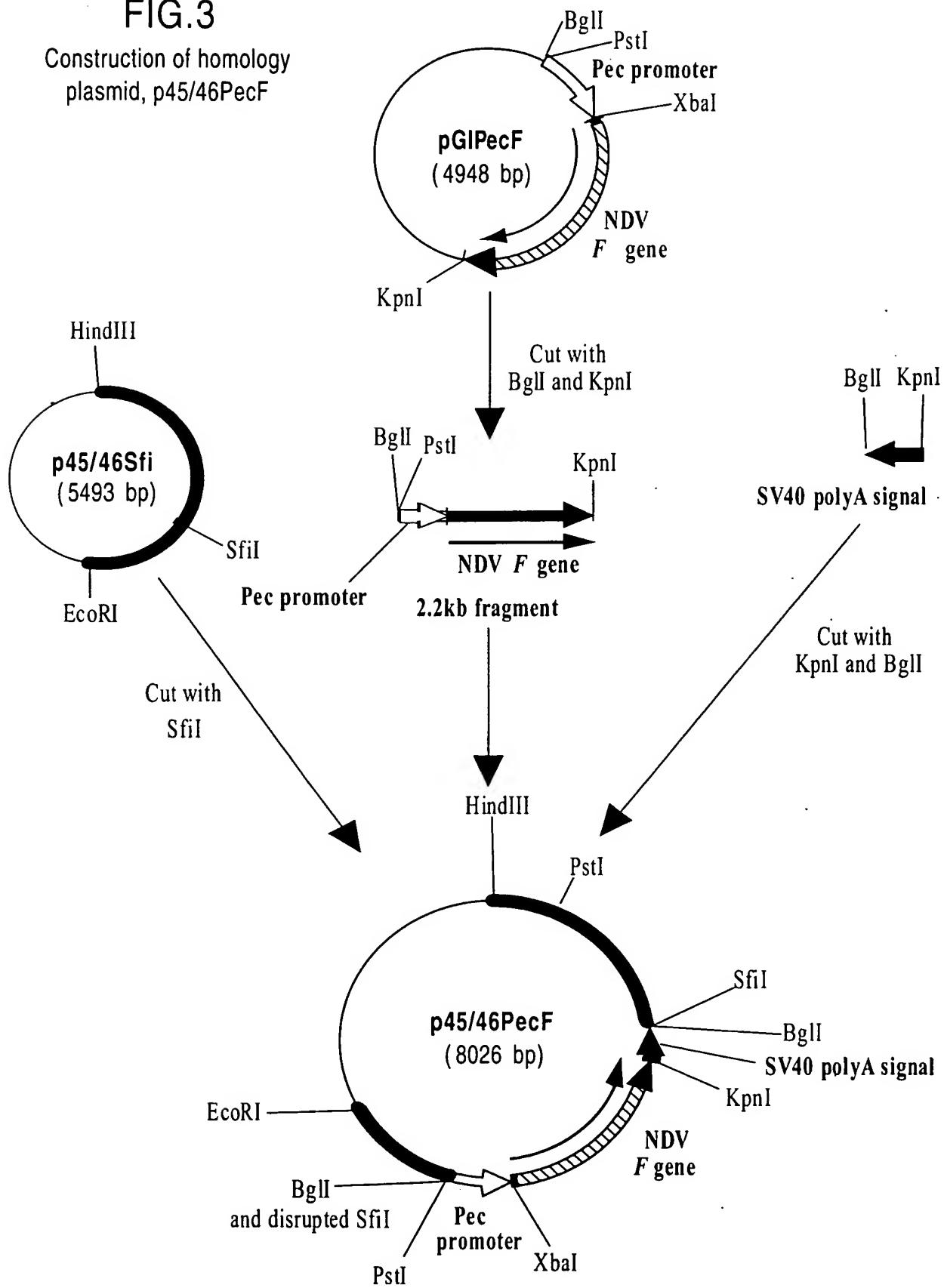


FIG.3  
Construction of homology  
plasmid, p45/46PecF



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## FIG.4

Western blot assay of rHVT/NDV, rHVT/NDV passage 5, and the HVT parent strain using NDV F rabbit antiserum. Lane 1 = CEF negative control; Lane 2 = HVT parent strain; Lane 3 = rHVT/NDV; Lane 4 = rHVT/NDV passage 5. An arrow indicates the F protein with a molecular weight of 60kDa..

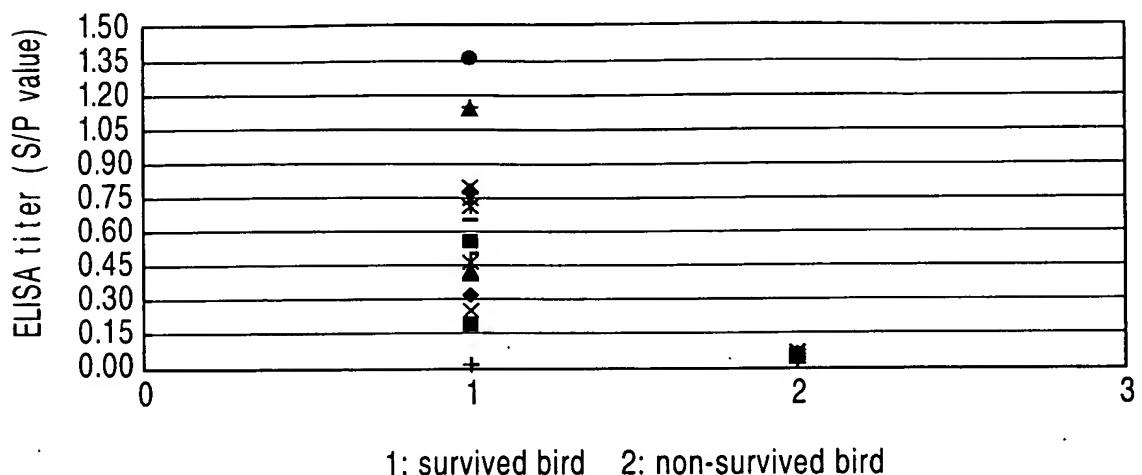
1 2 3 4

100 kd —  
75 kd —  
50 kd — ←

**FIGS.5 and 6** show the ELISA titers of survived and non-survived SPF and commercial birds, respectively. As indicated, all chickens having 0.15 or more of the antibody titer (S/P value) survived the virulent NDV challenge.

**FIG.5**

ELISA titer of sera from survived and non-survived birds (SPF chickens)



**FIG.6**

ELISA titer of sera from survived and non-survived birds (commercial birds)

